

Radial Freeway

Strategic Improvement Program



SR 400

Corridor Resource Guide

Radial Freeway Strategic Improvement Plan

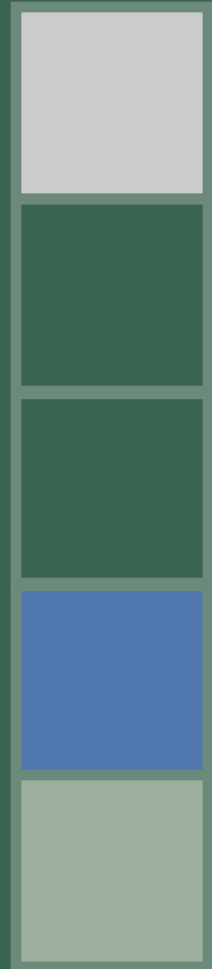
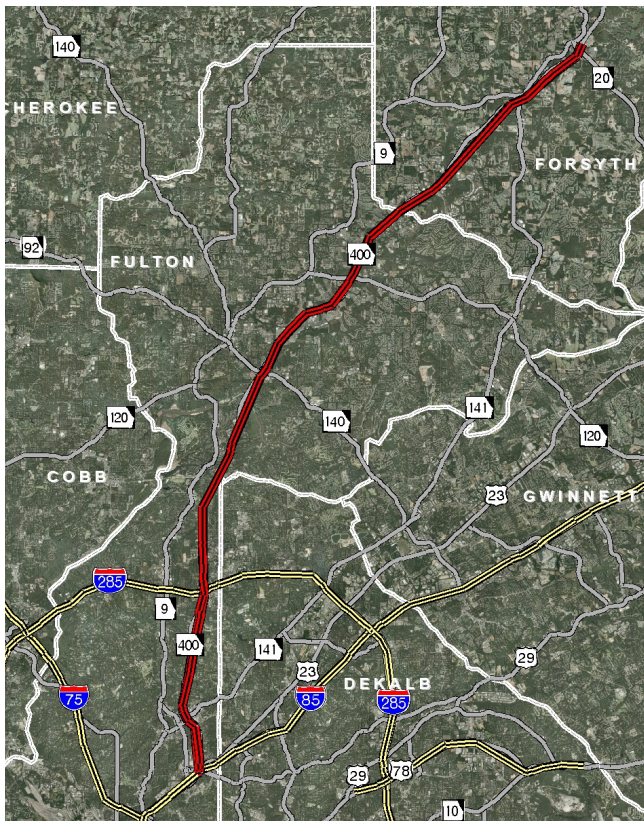




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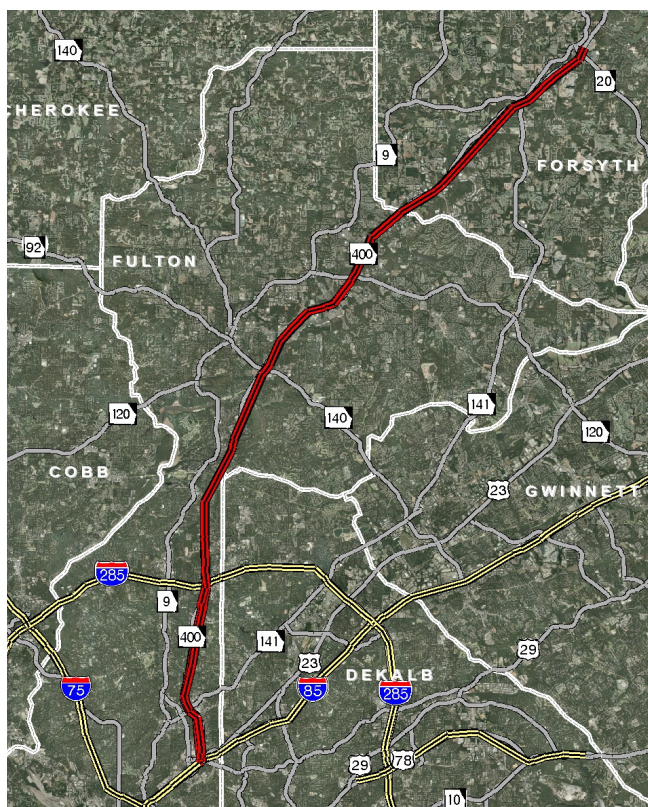


- Introduction
- Corridor Overview
- *Envision6* RTP - Programmed and Planned Projects



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Strategic Improvement Plan

Introduction



This Corridor Resource Guide documents the current (2007) and forecast (2030) travel conditions along SR 400 from I-285 to SR 20. The Guide also provides detail on planned and programmed projects that are included in the Atlanta Region's *Envision6* RTP along this section of SR 400.



Corridor Overview

Segment 1: From I-285 to SR 140

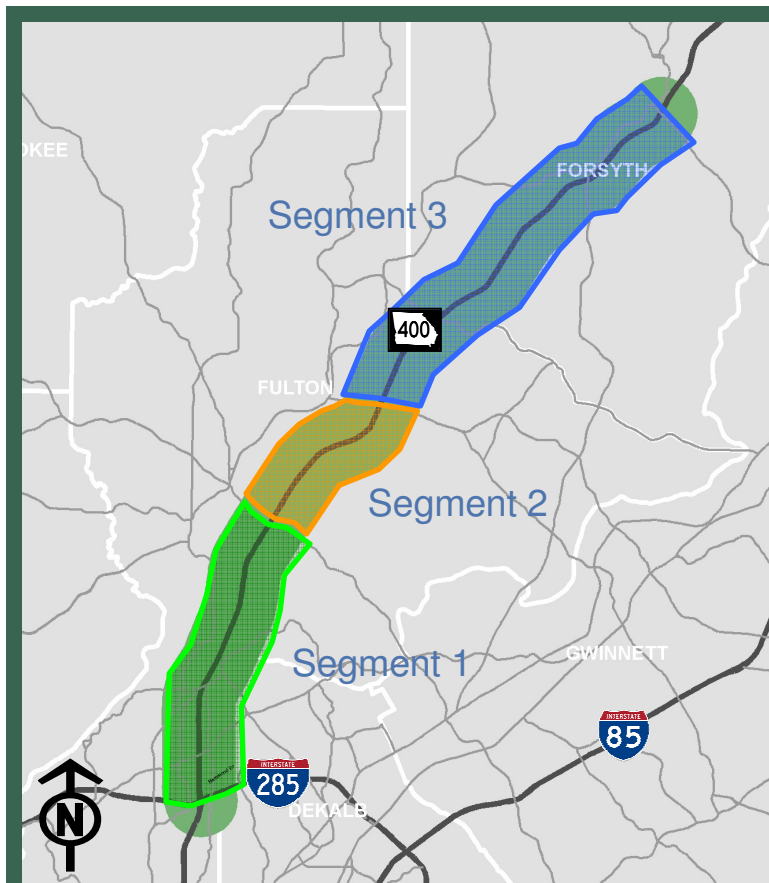
Length = 6.5 miles
Average Interchange Spacing = 1.63
3 GP Lanes, No HOV lane
Parallel Corridors: SR 9

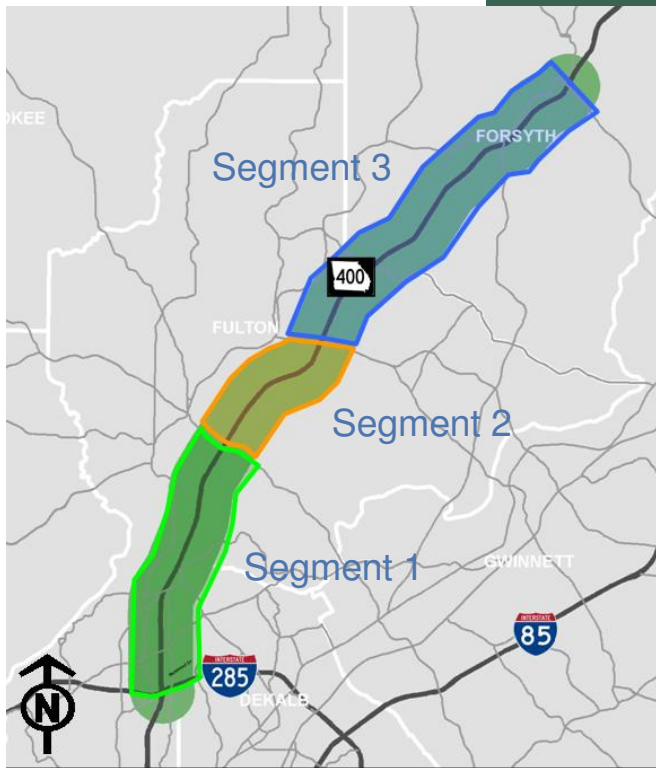
Segment 2: From SR 140 to SR 120

Length = 4.5 miles
Average Interchange Spacing = 1.5
3 GP Lanes, No HOV lane
Parallel Corridors: SR 9

Segment 3: From SR 120 to SR 20

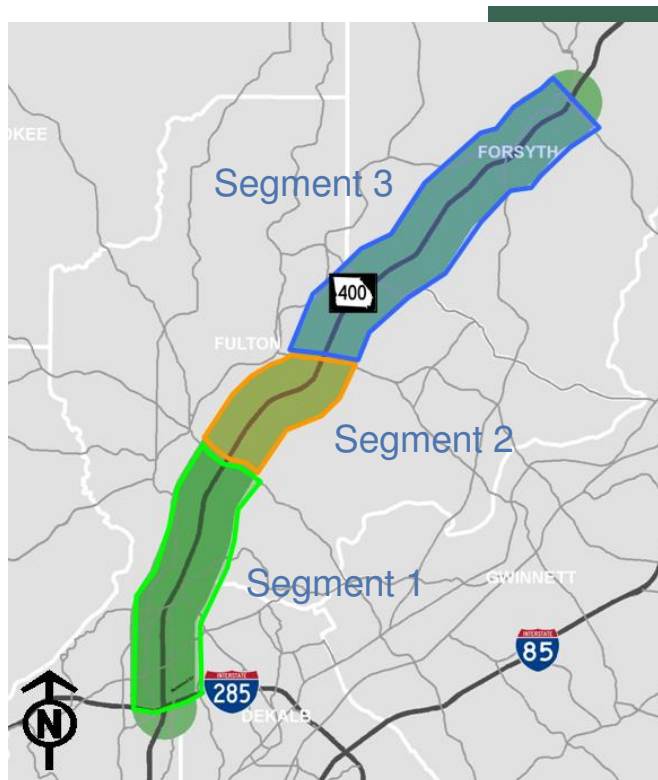
Length = 11 miles
Average Interchange Spacing = 2.75
2 GP Lanes, No HOV lane
Parallel Corridors: SR 9, SR 141





AM Period = 7:00 AM to 10:00 AM
 Midday Period = 10:00 AM to 3:00 PM
 PM Period = 3:00 PM to 7:00 PM

1 – Based on Field Data collected from SR 400 Traffic & Revenue Study



SR 20

	TRAVEL TIME INDEX (TTI) ¹	DURATION OF CONGESTION ¹	VOLUME/ CAPACITY (V/C) RATIO ¹
Segment 1	■ 2005 TTI = 3.48 ■ 2030 TTI = 3.80 ■ Percent Increase = 9% <i>CMTF Target TTI = 1.35</i>	■ 2005 Daily Congestion = 7.17 hours ■ 2030 Daily Congestion = 8.12 hours ■ Percent Increase = 13%	■ 2005 V/C Ratio = 1.09 ■ 2030 V/C Ratio = 1.10 ■ Percent Increase = 1%
Segment 2	■ 2005 TTI = 2.65 ■ 2030 TTI = 2.66 ■ Percent Increase = 0% <i>CMTF Target TTI = 1.35</i>	■ 2005 Daily Congestion = 7.66 hours ■ 2030 Daily Congestion = 7.74 hours ■ Percent Increase = 1%	■ 2005 V/C Ratio = 1.00 ■ 2030 V/C Ratio = 1.01 ■ Percent Increase = 1%
Segment 3	■ 2005 TTI = 2.61 ■ 2030 TTI = 3.01 ■ Percent Increase = 16% <i>CMTF Target TTI = 1.35</i>	■ 2005 Daily Congestion = 4.60 hours ■ 2030 Daily Congestion = 5.45 hours ■ Percent Increase = 19%	■ 2005 V/C Ratio = 0.99 ■ 2030 V/C Ratio = 1.04 ■ Percent Increase = 5%
TTI = Congested Travel Time / Freeflow Travel Time Congestion Management Task Force (CMTF) Target TTI = 1.35			
Duration of congestion represents the amount of time transportation networks are congested Daily Congestion = Number of Congested Hours (Above an "Acceptable" V/C of 0.90)			
1 – Based on Model Data (Envision 6)			



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Programmed and Planned Project Types

Envision6 Project Types

- Roadway Operational Upgrades
- Roadway Maintenance / Operations
- ITS-Smart Corridor
- **General Purpose Roadway Capacity***
- **Managed Lanes - Auto/Bus and Truck***
- Transit Facilities
- Bridge Capacity
- Bridge Upgrade
- **Interchange Capacity***
- Interchange Upgrade
- Fixed Guideway Transit Capital
- Studies



*Project types for SR 400



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Envision6 Programmed and Planned Projects

Segment 1: From I-285 to SR 140

Interchange Capacity

- SR 400 at Hammond Drive

Managed Lanes Interchange

- SR 400 at I-285

General Purpose Roadway Capacity

- From Hammond Dr to Spalding Dr

Segment 2: From SR 140 to SR 120

Interchange Capacity

- SR 400 at SR 120

Segment 3: From SR 120 to SR 20

General Purpose Roadway Capacity

- From McFarland Rd to SR 20

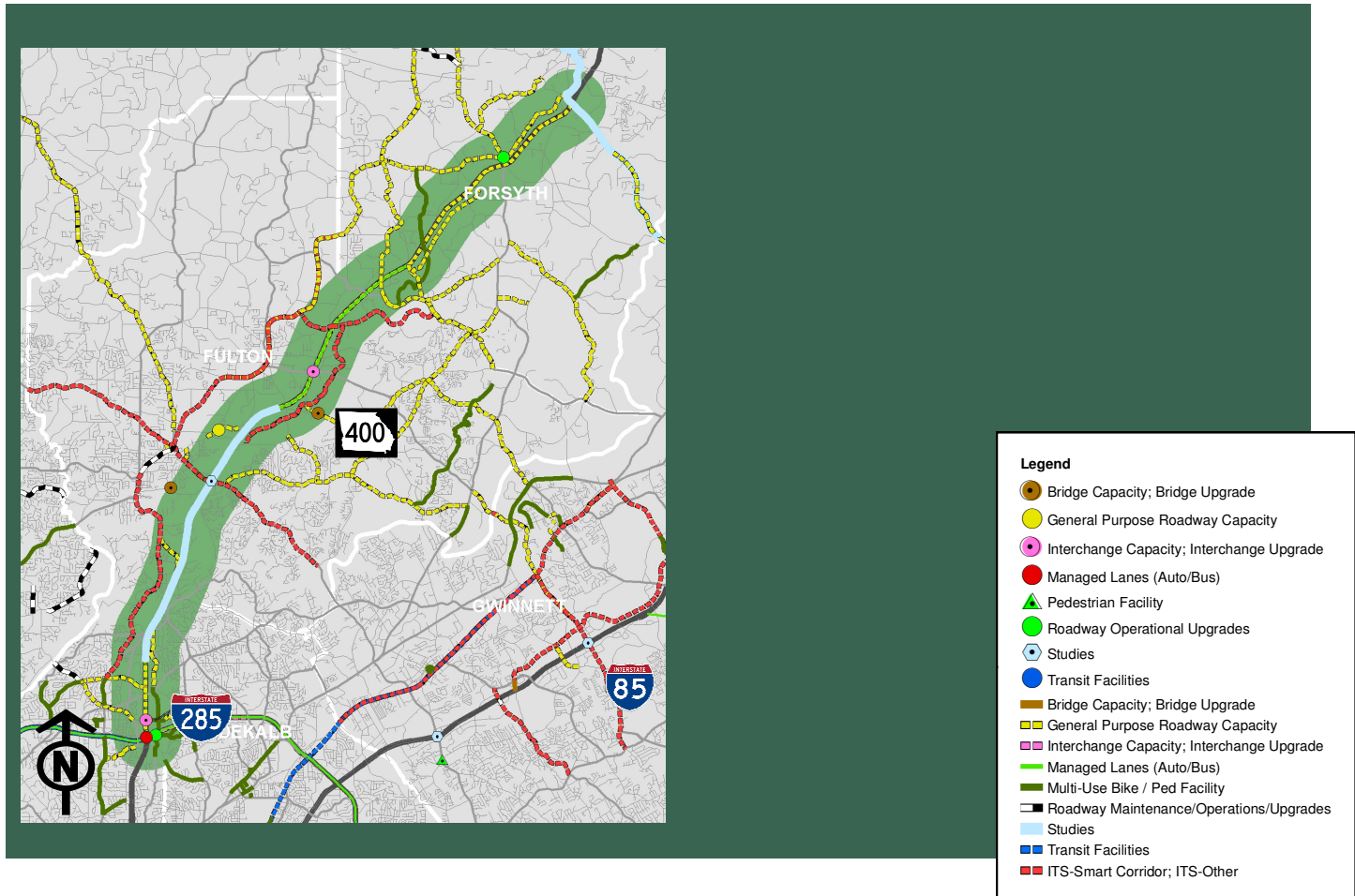
Corridor Wide

General Purpose Roadway Capacity

- Spalding Dr to McFarland Rd

Managed Lanes

- I-285 to McFarland Rd





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Envision6 Programmed and Planned Projects

SR 400 from Spalding Drive in North Fulton County to McFarland Road in Forsyth County

ARC ID – AR-936

Type – General Purpose Roadway Capacity

Status – Programmed

Phase – Preliminary Engineering

Fiscal Year – 2008

Total Phase Cost

\$200,000

SR 400 from Spalding Drive in North Fulton County to McFarland Road in Forsyth County

ARC ID – AR-936

Type – General Purpose Roadway Capacity

Status – Programmed

Phase – Construction

Fiscal Year – 2008

Total Phase Cost

\$5,000,000

Project Summary

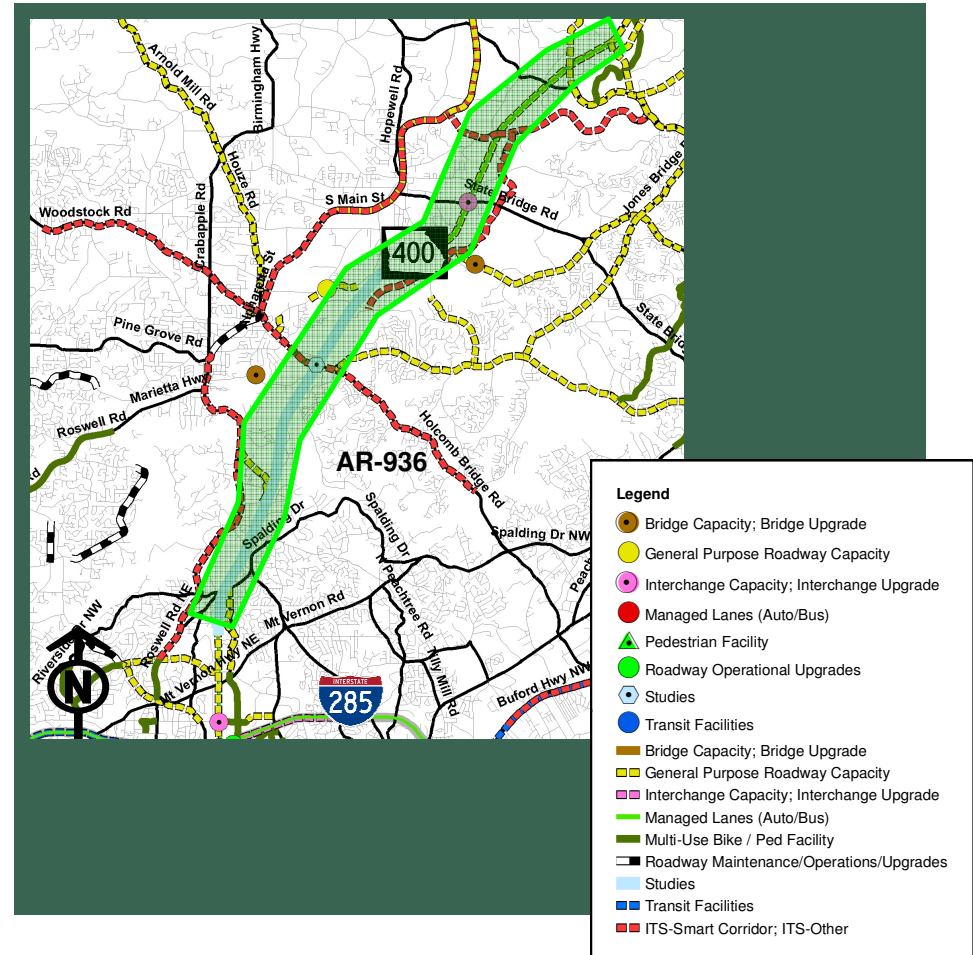
Congressional Districts 6 and 9

Sponsor – GDOT

Jurisdiction – Multi-County

Total Project Cost

\$5,200,000





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Envision6 Programmed and Planned Projects

SR 400 from McFarland Road to SR 20 (Buford Highway)

ARC ID – AR-937

Type – General Purpose Roadway
Capacity

Status – Programmed

Phase – Preliminary Engineering

Fiscal Year – 2008

Total Phase Cost

\$6,000,000

SR 400 from McFarland Road to SR 20 (Buford Highway)

ARC ID – AR-937

Type – General Purpose Roadway
Capacity

Status – Programmed

Phase – Construction

Fiscal Year – LR 2014-2020

Total Phase Cost

\$60,000,000

Project Summary

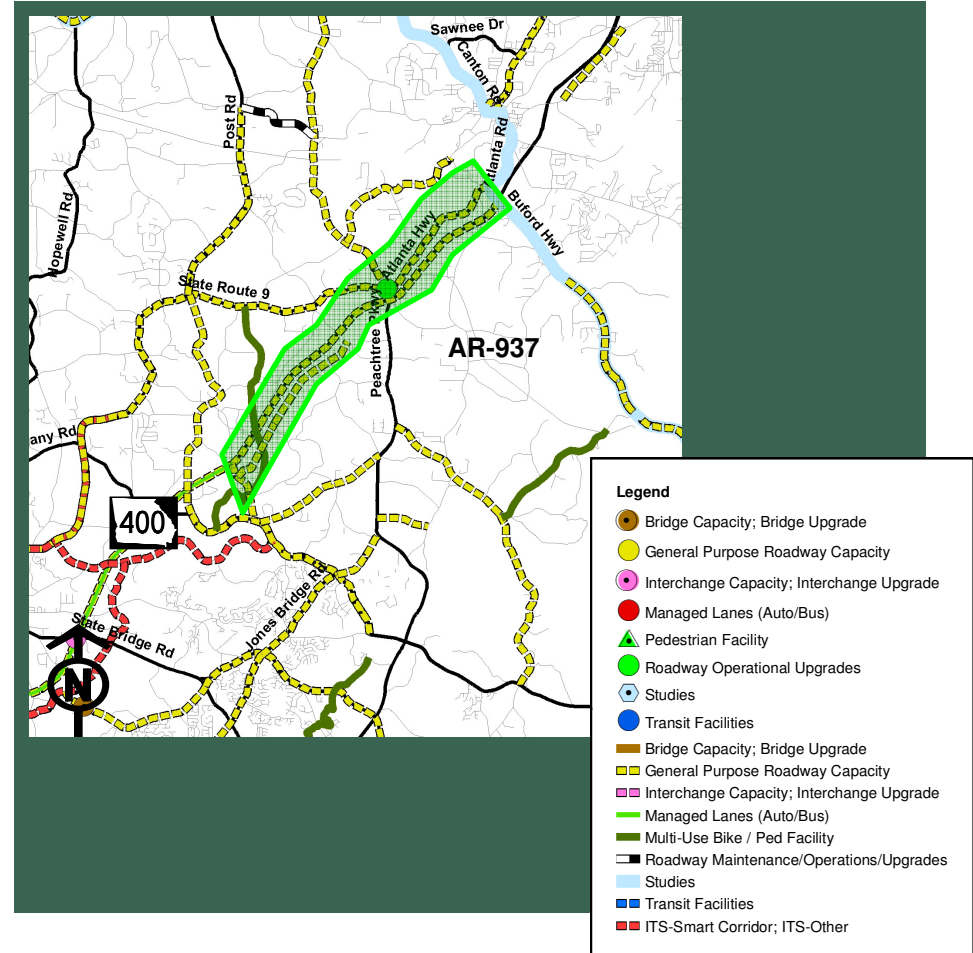
Congressional District 9

Sponsor – GDOT

Jurisdiction - Forsyth

Total Project Cost

\$66,000,000





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Envision6 Programmed and Planned Projects

SR 400 Half-Diamond Interchange at Hammond Drive

ARC ID – AR-938

Type – Interchange Capacity

Status- Programmed

Phase – Construction

Fiscal Year – 2008

Total Phase Cost

\$19,000,000

Project Summary

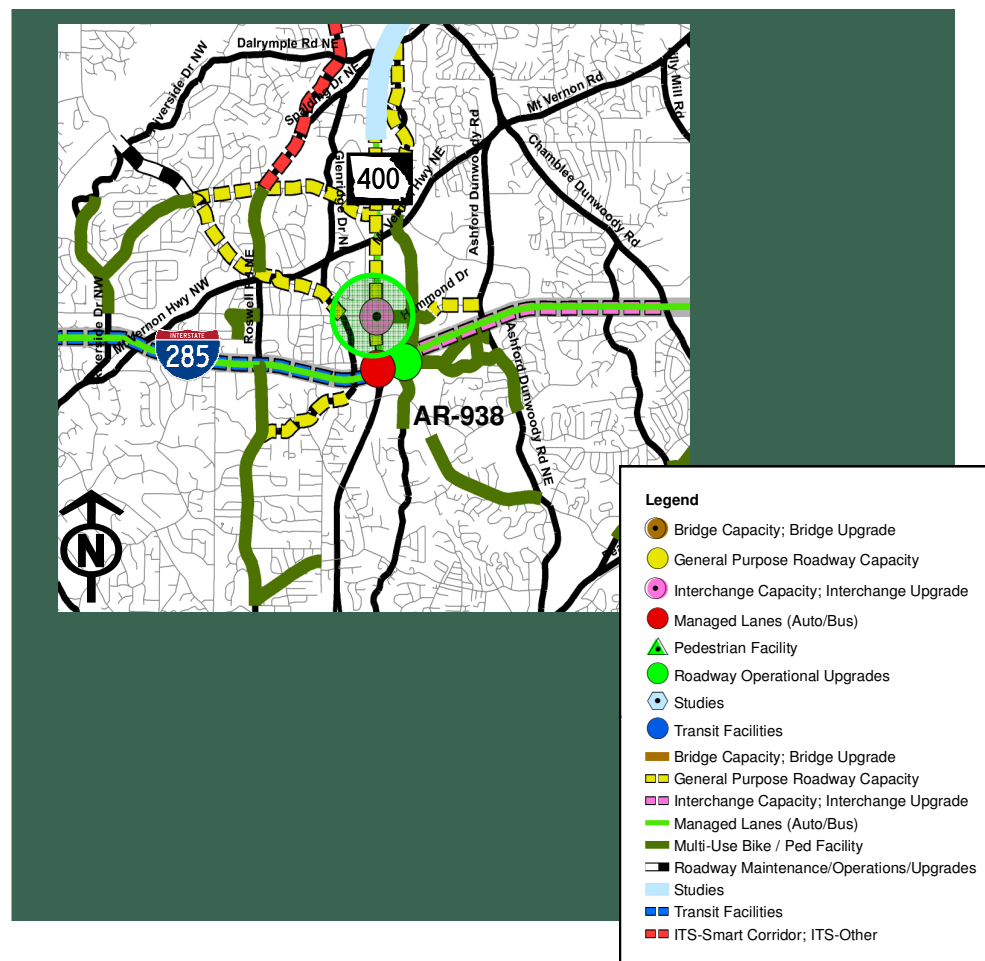
Congressional District 5

Sponsor – GDOT

Jurisdiction – Fulton (North)

Total Project Cost

\$19,000,000





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Envision6 Programmed and Planned Projects

I-285 North at SR 400 Managed Lanes Interchange

ARC ID – AR-H-900

Type – Managed Lanes

Status – Long Range

Phase – Preliminary Engineering

Fiscal Year – 2006, 2007, LR – 2021-2030

Total Phase Cost

\$5,000,000

I-285 North at SR 400 Managed Lanes Interchange

ARC ID – AR-H-900

Type – Managed Lanes

Status – Long Range

Phase – Right-of-Way

Fiscal Year – LR 2021-2030

Total Phase Cost

\$130,575,000

I-285 North at SR 400 Managed Lanes Interchange

ARC ID – AR-H-900

Type – Managed Lanes

Status – Long Range

Phase – Construction

Fiscal Year – LR 2021-2030

Total Phase Cost

\$679,218,000

Project Summary

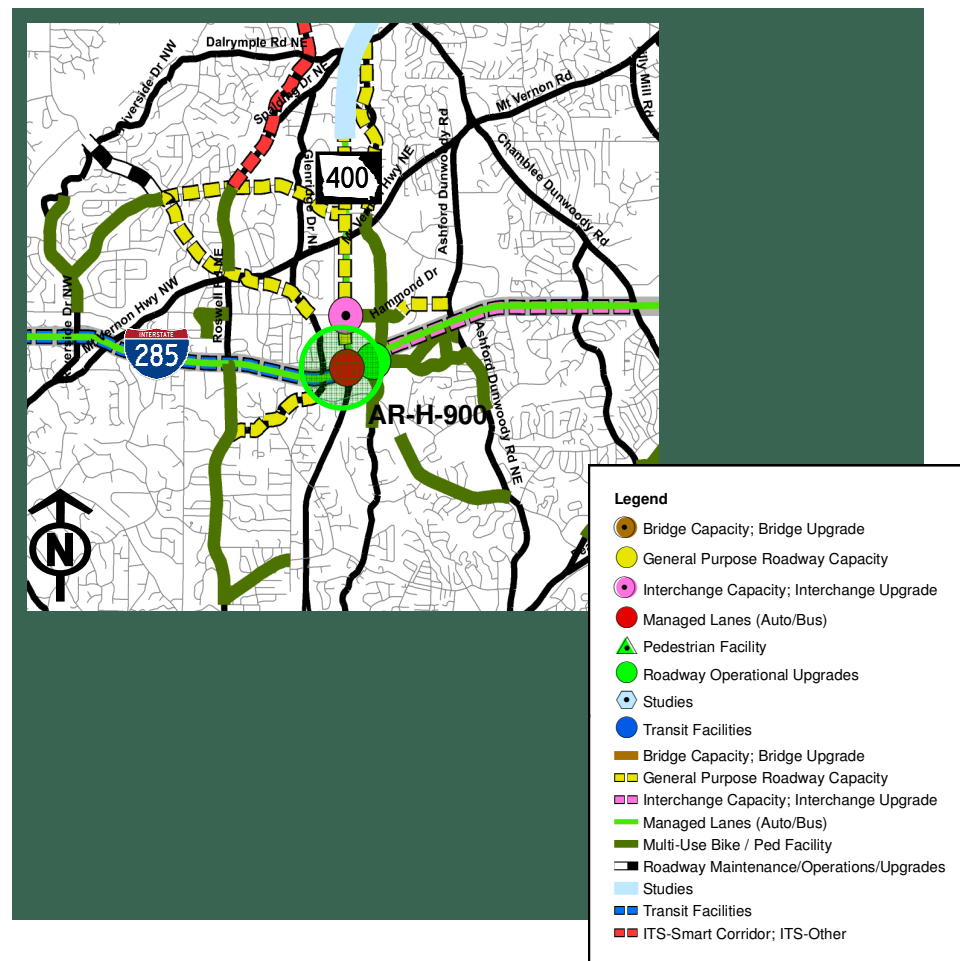
Congressional District 5

Sponsor - GDOT

Jurisdiction – Fulton (North)

Total Project Cost

\$814,793,000





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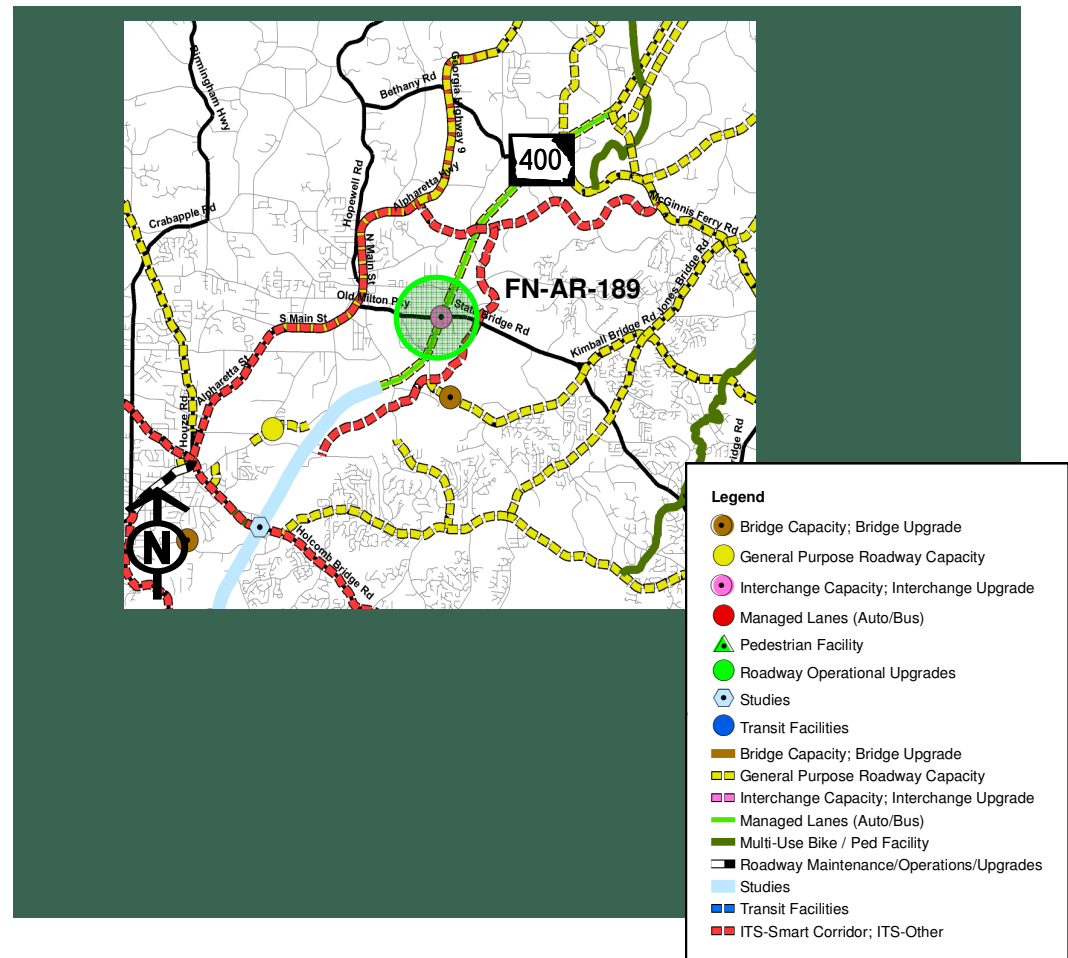
Envision6 Programmed and Planned Projects

**SR 400 at SR 120
(Old Milton Parkway)**
ARC ID – FN-AR-189
Type – Interchange Capacity
Status – Programmed
Phase – Preliminary Engineering
Fiscal Year – 2008
Total Phase Cost
\$250,000

**SR 400 at SR 120
(Old Milton Parkway)**
ARC ID – FN-AR-189
Type – Interchange Capacity
Status – Programmed
Phase – Right-of-Way
Fiscal Year – 2009
Total Phase Cost
\$750,000

**SR 400 at SR 120
(Old Milton Parkway)**
ARC ID – FN-AR-189
Type – Interchange Capacity
Status – Programmed
Phase – Construction
Fiscal Year – LR 2014-2020
Total Phase Cost
\$20,000,000

Project Summary
Congressional District 6
Sponsor – GDOT
Jurisdiction – Fulton (North)
Total Project Cost
\$21,000,000





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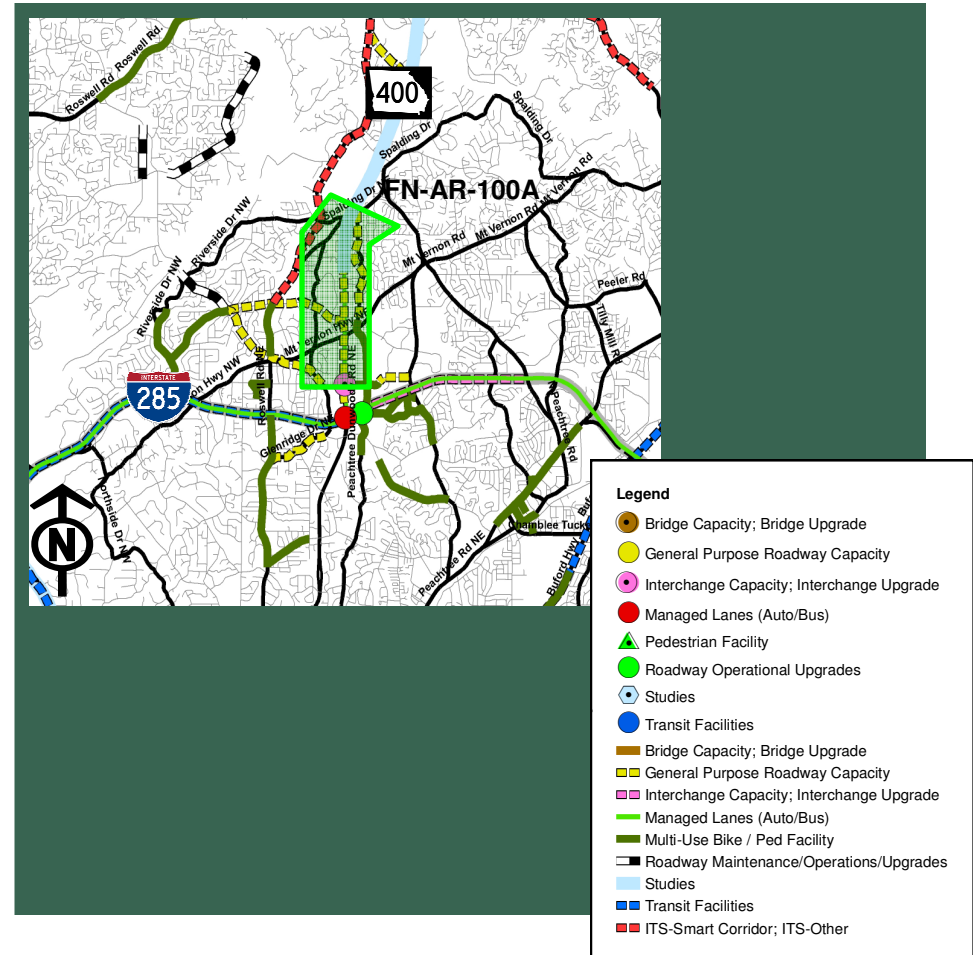
Envision6 Programmed and Planned Projects

SR 400 from Vicinity of Hammond Drive and Abernathy Road to North of Spalding Drive

ARC ID – FN-AR-100A
Type – General Purpose
Roadway Capacity
Status – Programmed
Phase – Construction
Fiscal Year – 2013
Total Phase Cost
103,346,000

Project Summary

Congressional Districts 5 & 6
Sponsor - GDOT
Jurisdiction – Fulton (North)
Total Project Cost
\$103,346,000





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Envision6 Programmed and Planned Projects

SR 400 from I-285 to McFarland Rd. in Forsyth Co.

ARC ID – AR-H-400
Type – Managed Lanes
Status – Long Range
Phase – Preliminary Engineering
Fiscal Year – 2005, 2008
Total Phase Cost
\$12,619,000

SR 400 from I-285 to McFarland Rd. in Forsyth Co.

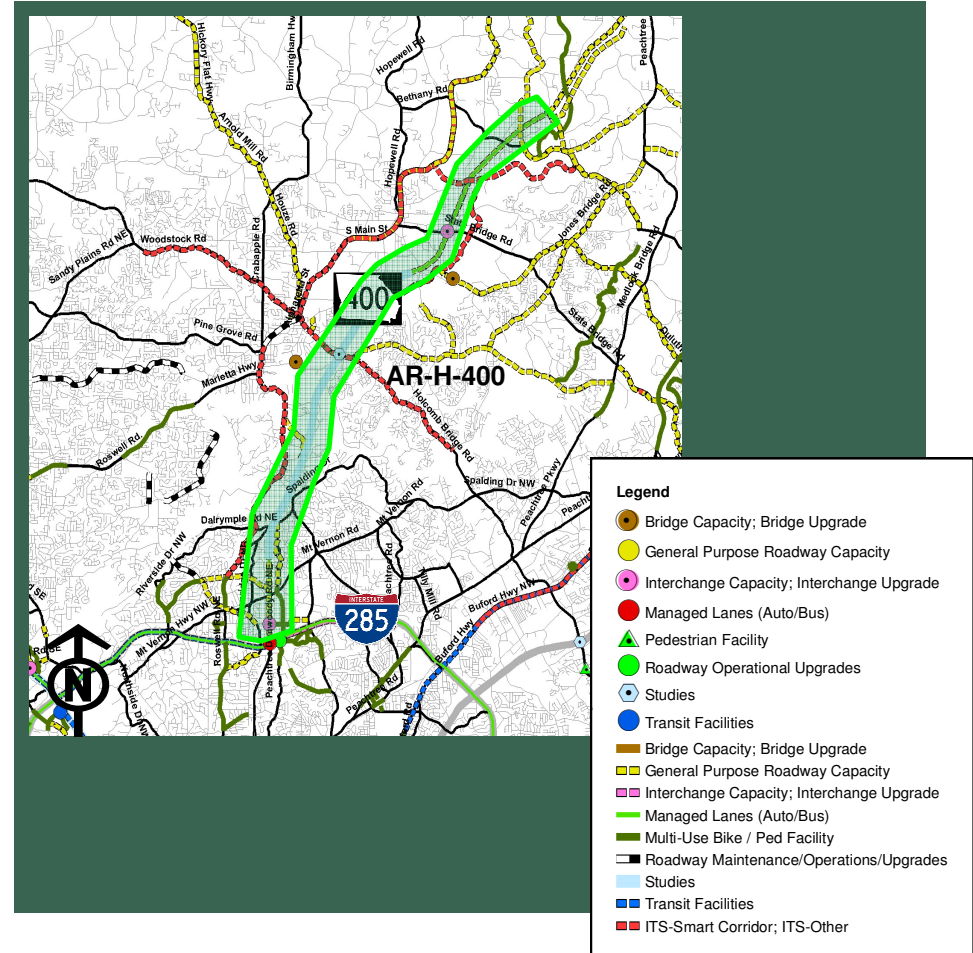
ARC ID – AR-H-400
Type – Managed Lanes
Status – Long Range
Phase – Right-of-Way
Fiscal Year – LR 2014-2020
Total Phase Cost
\$60,000,000

SR 400 from I-285 to McFarland Rd. in Forsyth Co.

ARC ID – AR-H-400
Type – Managed Lanes
Status – Long Range
Phase – Construction
Fiscal Year – LR 2014-2020
Total Phase Cost
\$205,000,000

Project Summary

Congressional Districts 5, 6, & 9
Sponsor – GDOT
Jurisdiction – Multi-County
Total Project Cost
\$277,619,000





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Funding Sources

Envision6 **Project Funding Sources For GA 400**

Federal
\$815,528,300 (63%)

State
\$202,429,700 (15%)

Local
\$9,000,000 (1%)

Bond
\$280,000,000 (21%)

**Total Corridor Investment
\$1,306,958,000**

